

Microsoft Surface Laptop Studio

A transformative way to work

Work the way you want whether compiling code on a powerful business laptop, multitasking while docked on a perfectly angled stage, or sketching ideas on a full-horsepower creative studio.

BENEFITS

Pull forward the display in stage mode at the perfect angle for docking, presenting to your client, and touch-first tasks, thanks to the dynamic woven hinge.

When docked in stage mode and connected to up to two external monitors, Surface Laptop Studio becomes a touch-and-digital pen enabled third monitor with an extra dimension of interaction.

Draw, write, and sketch with your digital pen in studio mode. Surface Slim Pen 2¹ magnetically attaches, stores, and recharges under the keyboard so it's always within reach and ready when you are.

Two USB 4.0 ports with Thunderbolt™ 4



Pen storage



14.4" PixelSense™ Flow Display with 120 Hz refresh rate



NVIDIA® RTX™ A2000 laptop GPU



Microsoft Surface Laptop Studio

SIZE AND WEIGHT 12.72" x 8.98" x 0.746" (323.28 mm x 228.32 mm x 18.94 mm)

i5: 3.83 lb (1,742.9 g)

i7: 4.00 lb (1,820.2 g)

MICS Dual Studio Mics with Voice Clarity¹², enabling super-wideband and natural full-duplex conversations

STORAGE Removable solid-state drive (SSD)²
Options: 256GB, 512GB, 1TB, 2TB

DISPLAY Screen: 14.4"3 PixelSense™ Flow Display
Refresh rate: up to 120Hz
Resolution: 2400 x 1600 (201 PPI)
Aspect ratio: 3:2
Contrast ratio: 1500:1
Touch: 10-point multi-touch
Dolby Vision® support⁴

EXTERIOR Casing: Magnesium and Aluminum
Color: Platinum

CONNECTIONS 2 x USB 4.0 with Thunderbolt™ 4 technologies support
Supports external dual 4k monitors each at 60Hz natively and up to four 4k monitors each at 30Hz with display support for daisy-chaining or display adapters with support for multiple displays
3.5mm headphone jack
1 x SurfaceConnect port

VIDEOS, CAMERAS, AND AUDIO

1080p resolution front-facing camera

Dual far-field Studio Mics

Quad Omnisonic™ speakers with Dolby Atmos®⁷

WIRELESS

Wi-Fi 6: 802.11ax compatible

Bluetooth Wireless 5.1 technology

KEYBOARD LAYOUT

Activation: Moving (mechanical) keys
Layout: QWERTY, full row of function keys (F1-F12)

Windows key and dedicated buttons for media controls, screen brightness Backlight

AUTHENTICATION

Windows Hello face authentication camera (front-facing)

PEN COMPATIBILITY

Surface Laptop Studio supports Microsoft Pen Protocol (MPP)

Surface Laptop Studio supports tactile Signals with Surface Slim Pen 2⁷

Get productive with full keyboard and Precision Haptic touchpad



Laptop mode



Stage mode



Studio mode

Work the way you want with three modes:

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SOFTWARE Windows 10 Pro or Windows 11 Pro⁹
Preloaded Microsoft 365 Apps¹⁰
Microsoft 365 Business Standard,
Microsoft 365 Business Premium,
or Microsoft 365 Apps
30-day trial¹¹

GRAPHICS Intel® Core™ i5 models:
Intel® Iris® Xe Graphics
Intel® Core™ i7 models:
NVIDIA® GeForce RTX™ 3050
Ti laptop GPU with 4GB GDDR6
GPU memory
NVIDIA® RTX™ A2000 laptop
GPU with 4GB GDDR6
GPU memory

SUSTAINABILITY [Sustainable Products & Solutions | Microsoft CSR](#)

SENSORS Ambient light sensor
Accelerometer
Gyroscope
Magnetometer

HINGE Dynamic Woven Hinge made
of woven fabric with embedded
cables that can bend 180 degrees

SECURITY Hardware TPM 2.0 chip for
enterprise security and
BitLocker support
Enterprise-grade protection
with Windows Hello face sign-in
Windows enhanced
hardware security

**WHAT'S IN
THE BOX** Surface Laptop Studio
Intel® Core™ i5: 65W Surface
Power Supply
Intel® Core™ i7: 102W Surface
Power Supply
Quick Start Guide
Safety and warranty documents

ACCESSIBILITY [Accessibility Features | Microsoft Accessibility](#)
[Accessible Devices & Products for PC & Gaming | Assistive Tech Accessories – Microsoft Store](#)

WEIGHT Intel® Core™ i5 models 3.83 lb
(1742.9 grams)
Intel® Core™ i7 models 4.00 lb
(1820.2 grams)

WARRANTY¹⁰ 1-year limited hardware warranty

**BATTERY
CAPACITIES
(MICROSOFT
STORES)** Battery Capacity Nominal
(WH): 58.0
Battery Capacity Min (WH): 56.3

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Disclaimers

* Sold separately. Software license required for some features

1. System software and updates use significant storage space. Available storage is subject to change based on system software and updates and apps usage. 1GB = 1 billion bytes. 1TB = 1,000GB. See Surface Storage for more details
2. This device does not contain user serviceable parts. Hard drive is only removable by an authorized technician following Microsoft provided instructions
3. Surface Laptop Studio display has rounded corners within a standard rectangle. When measured as a standard rectangular shape the screen is 14.36" diagonally (actual viewable area is less)
4. Requires Dolby Vision® encoded content and video
5. Surface Laptop Studio i5 processor: Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/Surface5Battery Performance for details. Surface Laptop Studio 14.4" 11th Gen Intel® Core™ i5 256GB SSD, 16 GB RAM, up to 19 hours of battery life based on typical Surface device usage. Battery life based on typical Surface device usage. Testing conducted by Microsoft in August 2021 using preproduction software and preproduction devices. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing 8 popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel and Outlook, and (3) a portion of time with the device in use with idle applications. All settings were default except screen brightness was set to 150 nits with Auto-Brightness disabled. Wi-Fi was connected to a network. Battery life varies significantly with settings, usage and other factors
6. Surface Laptop Studio i7 processor: Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/SurfaceBattery Performance for details. Surface Laptop Studio 14.4" 11th Gen Intel® Core™ i7 1TB SSD, 32GB RAM NVIDIA® GeForce RTX™ 3050 Ti laptop GPU, up to 18 hours of battery life based on typical Surface device usage. Battery life based on typical Surface device usage. Testing conducted by Microsoft in August 2021 using preproduction software and preproduction devices. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing 8 popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel and Outlook, and (3) a portion of time with the device in use with idle applications. All settings were default except screen brightness was set to 150nits with Auto-Brightness disabled. Wi-Fi was connected to a network. Battery life varies significantly with settings, usage and other factors
7. Tactile signals with Surface Slim Pen 2 can be experienced on some applications on Surface Laptop Studio running Windows 11. Surface Slim Pen 2 sold separately
8. Requires Dolby Atmos® encoded content and audio
9. The following Surface Laptop Studio functionalities are only available with Windows 11: Wake on touch and Surface Slim Pen 2 haptic support, which are available in some apps. Experience might be limited without Windows 11 installed
10. Subscription required (sold separately)
11. Activation required. If your device is managed by your organization's IT department, contact your IT administrator for activation. After 30 days, you will be charged the applicable monthly or annual subscription fee. Credit card required. Cancel any time to stop future charges. See <https://aka.ms/m365businesstrialinfo>
12. Voice Clarity available on Windows 11 and may require Windows update
13. Microsoft's Limited Warranty is in addition to your consumer law rights. Advanced Exchange included – may vary by market [Note: This one accompanies tech specs chart]